

AMENDMENTS TO THE CLAIMS:

1-7. (Cancelled)

8. (Original) In a heat exchanger having a front and a back, a plurality of spaced rows of flattened tubes from front to back and defining aligned tube runs in each row, and serpentine fins abutted to adjacent tube runs in each row and extending from front to back so that each fin is common to each of said rows and having heat flow interrupters in each fin at a location in the space between the aligned tube runs in each row, the improvement wherein each said heat flow interrupter is defined by a slit extending completely through the fin and is characterized by the absence of the removal of any material of which the fin is made at the slit, the aligned ones of said tube runs being connected in hydraulic series.

9-12. (Cancelled)

13. (Original) In a refrigeration system containing a transcritical refrigerant, a compressor for compressing the refrigerant, an evaporator connected to an inlet of the compressor and for evaporating the refrigerant, and a gas cooler for receiving compressed refrigerant from the compressor, cooling the same and discharging the cooled refrigerant to the evaporator, the improvement wherein the gas

cooler comprises a heat exchanger having a front and a back, a plurality of spaced rows of flattened tubes from front to back and defining aligned tube runs in each row, and serpentine fins abutted to adjacent tube runs in each row and extending from front to back so that each fin is common to each of said rows and having heat flow interrupters in each fin at a location in the space between the aligned tube runs in each row, the improvement wherein each said heat flow interrupter is defined by a slit extending completely through the fin and is characterized by the absence of the removal of any material of which the fin is made at the slit.

14. (Withdrawn) The heat exchanger of claim 13 wherein the edges of the slit are displaced from the remainder of the fin.

15. (Withdrawn) The heat exchanger of claim 14 wherein the edges of the slit extend at an acute angle to said remainder of the fin.

16. (Withdrawn) The heat exchanger of claim 15 wherein the edges of each slit are displaced in opposite directions from said remainder of the fin to said acute angle.

17. (Withdrawn) The heat exchanger of claim 14 wherein the edges of each slit are displaced into offset, spaced planes.

18. (Withdrawn) The heat exchanger of claim 13 wherein the slits in each fin defining said heat flow interrupter in each fin are separated by short joining sections and the edges of each slit are spaced from one another by deforming said joining sections.

19. (Withdrawn) The heat exchanger of claim 18 wherein said joining sections are thinner than the remainder of said fins.

20. (Original) The refrigeration system of claim 13 wherein said system is a heat pump system wherein said evaporator is also a gas cooler and said gas cooler is also an evaporator.

21-22. (Cancelled)

23. (Previously Presented) In a heat exchanger having a front and a back, a plurality of spaced rows of tubes from front to back and defining aligned tube runs in each row, and fins abutted to adjacent tube runs in each row and extending

from front to back so that each fin is common to each of said rows and having heat flow interrupters in each fin at a location in the space between the aligned tube runs in each row, the improvement wherein each said heat flow interrupter is defined by a slit extending completely through the fin and is characterized by the absence of the removal of any material of which the fin is made at the slit, the aligned ones of said tube runs being connected in hydraulic series.

24. (New) The heat exchanger of claim 8 wherein the edges of the slit are displaced from the remainder of the fin.

25. (New) The heat exchanger of claim 24 wherein the edges of the slit extend at an acute angle to said remainder of the fin.

26. (New) The heat exchanger of claim 25 wherein the edges of each slit are displaced in opposite directions from said remainder of the fin to said acute angle.

27. (New) The heat exchanger of claim 24 wherein the edges of each slit are displaced into offset, spaced planes.

28. (New) The heat exchanger of claim 8 wherein the slits in each fin defining said heat flow interrupter in each fin are separated by short joining sections and the edges of each slit are spaced from one another by deforming said joining sections.

29. (New) The heat exchanger of claim 28 wherein said joining sections are thinner than the remainder of said fins.

30. (New) The heat exchanger of claim 23 wherein the edges of the slit are displaced from the remainder of the fin.

31. (New) The heat exchanger of claim 30 wherein the edges of the slit extend at an acute angle to said remainder of the fin.

32. (New) The heat exchanger of claim 31 wherein the edges of each slit are displaced in opposite directions from said remainder of the fin to said acute angle.

33. (New) The heat exchanger of claim 30 wherein the edges of each slit are displaced into offset, spaced planes.

34. (New) The heat exchanger of claim 23 wherein the slits in each fin defining said heat flow interrupter in each fin are separated by short joining sections and the edges of each slit are spaced from one another by deforming said joining sections.

35. (New) The heat exchanger of claim 34 wherein said joining sections are thinner than the remainder of said fins.